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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/746,294	12/21/2000	Kristin Robert Stroda	638-29-9-1	1862	
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			ART UNIT	PAPER NUMBER	
1			2632		
			DATE MAILED: 10/23/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/746,294	STRODA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Julie Lieu	2632				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>03 J</u>	<u>lune 2002</u> .					
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	application					
	Claim(s) 1-15 and 17-31 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-15, 17-22,and 26-27</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) ☐ The specification is objected to by the Examine		•				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Trademark Office TO-326 (Rev. 04-01) Office Ac	ction Summary	Part of Paper No. 7				

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DETAILED ACTION

- 1. This Office action is in response to amendment filed 6/3/02. Claims 1 and 17 have been amended. Claim 16 has been canceled. New claims 21-31 have been added.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 11-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Boon (US Patent No. 5,796,059).

Claim 11:

Boon discloses a system for monitoring a patient, comprising:

- a. a pressure pad for providing a signal indicating a pressure condition;
- b. a control housing connected to the pressure pad and responsive to the signal; and
- c. a casing 52 at least partly encasing the pressure pad.

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Clim 12:

The pressure pad in Boon is activated by removal of pressure and inactivated by application of pressure.

Claim Rejections - 35 USC § 103

5. Claims 1, 3, 6, 14, 15, and 26-27 are rejected under 35 U.S.C. 102(3) as being unpatentable over Boon (US Patent No. 5,796,059).

Claim 1:

Boon discloses a method of monitoring a patient, comprising the steps of:

- a. placing a pressure pad (including 52) on a resting place, a bed or a chair, for the patient;
- b. energizing the pressure pad, whereby a signal is provided responsive to pressure more than a predetermined presseure being placed on the pressure pad by the patient (a minimum pressure that causes the detection);
- c. Arming the pressure pad when the pressure more than a predetermined pressure a predetermined weight the detection is on the pressure pad whereby the pressure pad serves as a sensor;
- d. Activating an alarm when the predetermined pressure has been on and then is removed from the armed pressure pad
- e. Disposing of the pressure pad when the patient no longer has use of the pressure pad.

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Regarding the claimed activating the alarm when the pressure has been on the pad for a predetermined time and is removed from the pad after a predetermined time, it would have been obvious to one skilled in the art to consider some time delays because false alarm would be preferable avoided and alarm should only be given during actual use of the pressure, whereas unintentional activation of the alarm could happen such as when health personnel might happen to press against the pad while setting up the bed for patient to use or inadvertent movement of patient on the bed causing false alarm to go off.

Further, one skilled in the art would have readily recognized that the situation wherein the pressure has been applied on the pad for some time and removed from the pad for some time would most likely a situation that the patient is actually using the pad and left the pad.

Therefore, one skilled in the art would apply such concept into the Boon system because it would prevent false alarms.

Regarding the claimed disposing the pad when patient no longer has use of the pressure pad without permitting use by another patient, it would have been obvious to one skilled in the art that this is up to the implementer and/or user to decide whether the pad should be a disposable pad and would be discarded after each use of a patient for sanitary purposes.

Claim 3:

Though not clearly stated, it would be inherent that an alarm is provided to a caretaker.

Claim 6:

The cover 52 of the pressure pad in Boon is plastic, however, it is not disposable.

Nonetheless, the concept making a cover of something disposable in order to achieve clinical sanitary and safety to prevent spread of disease is conventional in the art. For example,

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disposable bedspread, pillow case, etc...Therefore, it would have been obvious to one of ordinary skill in the art to make the cover in Boon to be disposable as desired so that the device can be place directly beneath the patient.

Claim 14:

In Boon, the pressure pad responds to pressure by reducing electrical resistance between a first point and a second point. The apparatus including a switch armed upon the reduction of electrical resistance and an alarm for providing the alarm when the switch has been armed and the electrical resistance is under a predetermined resistance threshold, wherein a movement of the patient from the pressure pad triggers the alarm. Col. 3, third paragraph to col. 4, first paragraph.

A time delay, such as 1 second, is not disclosed in Boon, but the concept of using time delay to avoid false alarm is conventional in the art. Therefore, it would have been obvious to one skilled in the art to use a time delay in the Boon system to prevent false alarm caused by inadvertent movement of the patient.

Claim 15:

The alarm in Boon provides the alarm when the switch has been armed and electrical resistance is under the predetermined resistance threshold. Regarding the time delay between 2 seconds and 3 seconds in duration, it is not disclosed in Boon, but the concept of using time delay to avoid false alarm is conventional in the art. Therefore, it would have been obvious to one skilled in the art to use a time delay in the Boon system to prevent false alarm caused by inadvertent movement of the patient.

Claims 26 and 27:

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Boon fails to disclose a second sensor placed in juxtaposition with the patient. However, Cross teaches the use of a sensor placed in juxtaposition with the patient so that when the patient assumes a dangerous position as indicated by the sensor so that when the patient assumes a dangerous position as indicated by the second sensor, an alarm signal is given and a monitoring station is activated when the alarm signal is provided, and a voice message is announced near the patient. Front figure. In light of this teaching, it would have been obvious to one skilled in the art to combine the features taught in Cross in the system of Boon because it would further provide information to the care taker remote from the patient's location of the patient's dangerous position. Further, the second sensor would provide redundant information as well as more information as to how far away from the bed or chair the patient is after leaving the support structure. The monitoring personnel can further determine the possible undesirable situation based on the combination of the information provided by both sensors. The use of mechanical switch or photoelectric switch only constitutes a choice in design.

4. Claims 17-20 are rejected under 35 U.S.C. 102(3) as being unpatentable over Boon (US Patent No. 5,796,059) in view of Smith, III (US Patent No. 3,737,930).

Claim 17:

Boon disclose an a pressure pad comprising an alarm system having a pressure switch 12,14, the alarm being connected to the switch, and being armed upon the pressure being placed on the pressure pad and activated upon a release of pressure of the pressure removed. Boon fails to disclose a gel cushion. Nonetheless, the use of gel cushion to provide resting comfort to patent is conventional in the art as shown in Smith, III. Therefore, it would have been obvious to

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one skilled to use a gel cushion with the system in Boon, by placing it on top of the pressure sensing device in Boon because it provides comfort while pressure on the gel cushion would result in pressure on the pressure switch.

Regarding the claimed activating the alarm when the pressure has been removed from the pad after a predetermined time, it would have been obvious to one skilled in the art to consider some time delays because false alarm would be preferable avoided and alarm should only be given during actual use of the pressure, whereas unintentional activation of the alarm could happen such as when health personnel might happen to press against the pad while setting up the bed for patient or inadvertent movement of patient on the bed causing false alarm to go off while it should not.

Different forms of alarm indication such as visible or audible would not constitute an Claims 18 and 19: inventive step but a choice in design because they are functionally equivalent in providing an alert signal to a user.

In Boon, the pressure switch includes two conductors spaced by a flexible material that Claim 20: permits contact between the conductors under a predetermined amount of pressure.

Claims 2, 4-5, 7-10, 13, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boon (US Patent No. 5,796,059) in view of Cross (US Patent No. 5,494,046) (both cited by the applicant).

Claims 2, 21, and 22:

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Boon fails to disclose a second sensor placed in juxtaposition with the patient. However, Cross teaches the use of a sensor placed in juxtaposition with the patient so that when the patient assumes a dangerous position as indicated by the sensor so that when the patient assumes a dangerous position as indicated by the second sensor, an alarm signal is given and a monitoring station is activated when the alarm signal is provided, and a voice message is announced near the patient. Front figure. In light of this teaching, it would have been obvious to one skilled in the art to combine the features taught in Cross in the system of Boon because it would further provide information to the care taker remote from the patient's location of the patient's dangerous position. Further, the second sensor would provide redundant information as well as more information as to how far away from the bed or chair the patient is after leaving the support structure. The monitoring personnel can further determine the possible undesirable situation based on the combination of the information provided by both sensors. The use of mechanical switch or photoelectric switch only constitutes a choice in design.

Claims 4 and 5:

It is not clear in Boon where exactly the alarm is located. However, it would have been obvious to one skilled in the art to recognize positioning the alarm at locations convenient for monitoring staff to be alerted of the situations as taught in Cross (col. 3, lines 32-39).

Claim 7:

Boon discloses a method of monitoring a patient, comprising the steps of placing a pressure pad under the patient that activates a first switch when energized and providing an alarm signal when the pressure pad is activated by removal of pressure and reset by application of pressure.

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Boon fails to disclose attaching a fastener to the patient. However, the concept of attaching a fastener to a patient wherein if the patient moves beyond a predetermined distance the switch moves between one of an open state or a closed state to the other of the open or closed state and providing an alarm signal when the second switch is activated is conventional in the art as taught in Cross. In light of this teaching, it would have been obvious to one skilled in the art to combine the features taught in Cross in the system of Boon because it would further provide information to the care taker remote from the patient's location of the patient's dangerous position. Further, the second sensor would provide redundant information as well as more information as to how far away from the bed a chair the patient is after leaving the support structure. The monitoring personnel can further determine the possible undesirable situation based on the combination of the information provided by both sensors.

Claim 8:

Cross shows that the fastener is attached to clothing of the patient.

Claim 9:

It is not clear whether the alarm in Boon is a verbal message to the patient of not.

However, Cross teaches using verbal message at either or both the patient and nurse's stations.

One skilled in the art would have readily recognized applying the same concept in the combined system for the same purpose as Cross's.

Claim 10:

Cross teaches transmitting a signal to a remote station and providing an alarm to a caretaker at the remote station.

Claim 13:

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It is not clear whether the alarm in Boon is a verbal message to the patient of not.

However, Cross teaches using verbal message at either or both the patient and nurse's stations.

One skilled in the art would have readily recognized applying the same concept in the combined

system for the same purpose as Cross's. The recorded voice message in Cross sound is within

hearing distance of the patient.

Allowable Subject Matter

6. Claim 23-25 and 28-31 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Remarks

7. The applicant's argument filed 6/3/02 has been considered but not deemed persuasive.

Argument 1:

The applicant has argued that it is not obvious to impart the delay time to avoid false

alarms nor to make the pad disposable nor tearing it after a signal use to be sure it is disposed of

by any teaching in Boon nor by any common teaching or logic.

Argument 2:

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With regards to claim 11, the applicant has argues that it is unobvious to provide a single casing the control module and the pressure pad.

Argument 3:

The applicant has argued that there is no suggestion or teaching in the record that indicates that it would have been obvious to a person of ordinary skill in the art o use a gel pad in combination with a pressure switch.

Response to Applicant's Remarks

The applicant's argument filed 6/3/02 has been considered but not deemed persuasive. 7.

Response to argument 1:

It is submitted that clinical sanitary is highly recognized and practiced at all health clinic and therefore one skilled in the art would have readily recognized disposing the sheet/cover of a device after a patient's use to avoid spreading germs. It is only up to the designer's discretion to design the pad so that it would be disposable.

It is also submit that the concept of providing time delay to avoid false alarms is very conventional in the art.

Response to argument 2:

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See the rejection. Further, the claim only states that the casing is at least partly encasing the pressure pad, not the pressure pad AND the control housing, thus, the applicant's argument is not deemed relevant.

Response to argument 3:

See the rejection regarding claim 17.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julie Lieu whose telephone number is 703-308-6738. The examiner can normally be reached on Mon-Thursday, 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Hofsass can be reached on 703-305-4717. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Julie Lieu Primary Examiner Art Unit 2632